

SHVETSOV, M. S.

Main Types of Limestones and Their Classification,"

report presented at the 5th Intl. Congress on Sedimentology, Geneva/Lausanne,  
2-7 June 1958.

SHVETSOV, M.S.

Materials on the development on the study of sedimentary rocks in  
the U.S.S.R. Och. po ist. geol. znan. no. 6:97-237 '58. (MIRA 11:8)  
(Rocks, Sedimentary)

SHVETSOV, M.S.

~~Secondary changes in limestones. Trudy MGRI 33:9-13 '58.~~  
(MIRA 12:12)

(Limestone)

SHVETSOV, M.S.

First conference on teaching sedimentary petrography. Izv.vys.  
ucheb.zav.; geol.i razv. 2 no.9:123-132 S '59.  
(MIRA 13:4)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.  
(Petrology--Study and teaching)

FUSTOVALOV, L.V., otv.red.; GIMMEL'FARB, B.M., red.; KRASHENINNIKOV, G.F., red.; SARKISIAN, S.G., red.; SERDYUCHENKO, D.P., red.; TEODOROVICH, G.I., red.; SHVETSOL ~~M.~~, red.; SMIRNOVA, Z.A., red.izd-va; IVANOVA, A.G., tekhn.red.

[Problems of sedimentology; reports of Soviet geologists for the Sixth International Congress of Sedimentology] Voprosy sedimentologii; doklady sovetskikh geologov k VI Mezhdunarodnomu kongressu po sedimentologii. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 215 p. (MIRA 14:3)

1. International Congress of Sedimentology. 6th, Copenhagen, 1960.  
(Rocks, Sedimentary)

SHVETSOV, M.S.

Systemizing structures of sedimentary rocks. Izv.vys.ucheb.zav.,  
geol. i razv. L no.12:40-42 D :61. (MIRA 15:2)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.  
(Rocks, Sedimentary--Classification)

SHVETSOV, M.S.

Basic principles in the classification of sedimentary rocks.  
Izv. vys. ucheb. zav. ; geol. i razv. 4 no.8:3-10 Ag '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.  
(Rocks, Sedimentary--Classification)

VARSANOF'YEVA, V.A.; BOGDANOV, A.A.; KUZNETSOV, Ye.A.; LANGE, O.K.;  
MERKLIN, R.L.; MURATOV, M.V.; PERMYAKOVA, A.I.; PETRUSHEVSKIY,  
B.A.; SOKOLOV, B.S.; SHVETSOV, M.S.; YANSHIN, A.L.

Nikolai Sergeevich Shatskii. Biul. MOIP. Otd. geol. 36 no.4:  
3-6 Jl-Ag '61. (MIRA 14:9)  
(Shatskii, Nikolai Sergeevich, 1895-1960)

YABLOKOV, V.S., otv. red.; BEZRUKOV, F.L., red.; SHVETSOV, M.S.,  
red.; SHEVCHENKO, G.N., tekhn. red.

[Deltaic and shallow-water marine sediments] Del'tovye i  
melkovodno-morskie otlozheniya. Moskva, Izd-vo AN SSSR,  
1963. 262 p.  
(MIRA 16:12)

1. Akademiya nauk SSSR. Komissiya po osadochnym porodam pri  
otdelenii geologo-geograficheskikh nauk.  
(Sediments (Geology))

CHVEISOV, M.S.

More about classification of sedimentary rocks. Izv. vys. ucheb.  
zav. geol. i raw. 7 no. 7256-61 Jl '64 (MIRA 1882)

1. Moskovskiy geologorazvedochnyy institut im. Ordzhonikidze.

SHVETSOV, N. I.

Wage reform in the Chinese Peoples's Republic. Sots. trud. no. 9:44-  
57 S '56. (MIRA 9:12)  
(China--Wages)

ZOLOTAREV, V.I.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVYANTSEV, L.A.; PEKSHEV, Yu.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVYANTSEV, L.A.; ZYKOV, A.A.; NETHUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, M.N.; KARSHINOV, L.N.; YAKIMOV, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, P.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Development of the economy of the people's democracies; a survey for 1957] Razvitiye ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red. N.I. Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1958. 610 p. (MIRA 12:2)

1. Moscow. Nauchno-issledovat. kon'yunkturnyy institut.  
(People's democracies) (Economic conditions)

SHVETSOV, N.I.

Textile industry in China. Biul.tekh.-ekon.inform. no.12:70-72  
'58. (MIRA 11:12)  
(China--Textile industry)

CHU BAO-I [Ch'u Pao-i]; AVSENEV, Yu.M. [translator]; SHVETSOV, N.I.  
[translator]; FRUMKIN, A.B., red.; LEVITAN, I.B., red.;  
GURKIN, V.G., tekhn.red.

[Criticism of the bourgeois theory of free trade] Kritika  
burzhuaznoi teorii svobodnoi torgovli. Pod red. A.B.Frumkina.  
Moskva, Vneshtorgizdat, 1959. 82 p. Translated from the  
Chinese.  
(Free trade and protection)

ZHLOTAREV, V.I.; PEKSHEV, Yu.A.; LINSKIY, B.V.; AVSENKOV, Yu.M.; KISVIANTSEV,  
L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; ZYKOV, A.A.; SENIN, V.P.;  
NETRUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.;  
KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.;  
YAKIMOV, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKO, N.N.;  
LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; survey for 1958]  
Razvitiye ekonomiki stran narodnoi demokrattii; obzor za 1958 g. Pod  
red. M.I. Sladkovskogo i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry,  
(MIRA 13:7)  
1959. 358 p.

1. Moscow. Nauchno-issledovatel'skiy kon'yunktturnyy institut.  
(Communist countries--Economic conditions)

PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSEMOV, Yu.M.; MIL'KOV, V.S.; KISVYANTSEV, L.A.; TELEGIN, Ya.I.; POTAPOV, V.I.; NETRUSOV, A.A.; ZYKOV, A.A.; KUDIN, B.M.; MAKSI- MOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.; PLAKSIN, S.V.; PCPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; VISYANIN, Yu.L.; KRASNOV, L.V.; PUSENKOV, N.N.; IVANOV, N.I., red.; ZOLOTAREV, V.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; KOROLEVA, A., mladshiy red.; NCGINA, N., tekhn. red.

[Economic development of the people's democracies; survey for 1959]  
Razvitiye ekonomiki stran narodnoi demokratii; obzor za 1959 god. Pod  
red. N.I. Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960.  
(MIRA 14:6)  
305 p.

1. Moscow. Nauchno-issledovatel'skiy kon'yukturnyy institut.  
(Europe, Eastern--Economic conditions)

NIKIFOROV, L.A.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.;  
PLAKSIN, S.V.; POPOV, N.N.; PEKSHEV, Yu.A.; KARSHINOV, L.N.;  
YAKIMOVA, T.A.; SHALASHOV, V.P.; VASYANIN, Yu.L.; KRASNOV, L.V.;  
PUSENKOV, N.N.; VASIL'YEVA, G.N.; TSACURIYA, G.M., tekhr. red.

[Economic development of the people's democracies of Europe and  
Asia; statistical collection] Razvitiye ekonomiki stran narodnoi  
demokratii Evropy i Azii; statisticheskii sbornik. Moskva,  
Vneshtorgizdat, 1961. 470 p. (MIRA 15:5)  
(Communist countries--Statistics)

SHVETSOV, N. I.

Apr 51

U.S./Chemistry - Alkaloids

"Investigation on the Synthesis of a Number of Analogs of the Alkaloid Colchicine, II," T. F. Denkova (deceased), T. N. Bol'tova, N. A. Preobrazhenskiy, and A. Ye. Petrushenko, I. A. Il'steyn, N. I. Shvetsov, Students, Moscow Inst of Fine Chem Tech

"Zhur Obshch Khim" Vol XXI, No 4, pp 767-780

To ascertain structure of colchicine and possibly find coraps with similar structure with colchicine-like action, synthesized the following, contg proved or assumed structural elements of colchicine: 1 deriv of  $\beta$ -diphenylethylamine, 2 derivs of  $\alpha$ ,  $\beta$ -diphenylpropylamine, 2 derivs of  $\beta$ ,  $\gamma$ -(diphenyl)-butylanine, 7 derivs of  $\beta$ -keto- $\alpha$ ,  $\beta$ -diphenylpropylene.

192730

SHVETSOV, N. I.

SHVETSOV, N. I. -- "Synthesis of Simple and Complex Esters of 1-Alkyl-2, 5-dimethyl-4-phenyl-4-piperidols." Sub 31 Mar 52, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

NAZAROV, I.N.; CHERKASOVA, Ye.M.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Part 33. Synthesis of 1-alkyl-2,5-dimethyl-4-piperidones. Zhur. ob. khim. 25 no.12:2245-2255 N '55.  
(MLRA 9:4)

I.Moskovskiy institut tenkey khimicheskoy tekhnologii imeni  
M.V.Lomonosova.  
(Piperidone)

SHVETSOV, N. I.

Synthetic analgesics. VII. 1-Alkyl-2 : 5-dimethyl-4-phenyl-4-piperidol. I. N. Nazarov, N. I. Shvetsov and O. I. Semkin. IX. Its complex with homologues of Phenidol and Isoprophenidol. I. N. Nazarov and N. I. Shvetsov. Cyanohydrins of  $\gamma$ -piperidone, tetrahydro- $\gamma$ -pyrone and tetrahydro- $\gamma$ -thiopyrone; stereo-chemistry of cyanohydrin synthesis. I. N. Nazarov and B. V. Unkovskii (Zh. obshch. Khim., 1986, 20, 3157-3169; 3170-3181; 3181-3191).—VIII. The effect of phenyl-lithium on 1-alkyl-2 : 5-dimethyl-4-piperidone (I) is considered. In the majority of cases three stereoisomers—from the four theoretically possible—are separated from the phenylpiperidols (II) produced. Phenyl-lithium when reacted with 1-cyclohexyl- and 1-phenyl-2 : 5-dimethyl-4-piperidone forms only one stereoisomer. I reacts preferentially in enolic form with Grignard reagents but gives low yields of *tert*-piperidol.

IX. Propionic esters, propionates (III) and acetates of stereoisomers of II are prepared. Satisfactory esterification of II depends on structure of isomers and on character of substituents on the N of the piperidol nucleus. With Me groups in this position, II easily esterifies with acid halides in the cold, but with higher alkyl or alicyclic radicals, only by heating in presence of Mg metal. If the alkyl substituents at the N are branched, analgetic activity of III is nullified. Thus the hydrochloride of the propionate of the  $\alpha$ -isomer of 1 : 2 : 5-trimethyl-4-phenyl-4-piperidol showed highest analgetic and lowest toxic activity.

The synthesis of piperidone cyanohydrins was achieved through reactions of conc. aq. solutions of the hydrochlorides with the calculated amounts of NaCN.  $\gamma$ -Piperidone reacted energetically with HCN. Similarly by reacting the hydrochlorides of I with NaCN a series of 1-alkyl-2 : 5-dimethyl-4-cyano-4-piperidols were obtained. From bicyclic aminoketones, cyanohydrin crystals (96-97% yields) were obtained, containing condensed piperidine nuclei. By adding to aq. solutions of 2 : 2-dimethyltetrahydropyran-4-one and -thiopyran-4-one 40% aq. NaHSO<sub>3</sub>, the corresponding bisulphite compounds are formed which with conc. aq. NaCN are easily converted to the cyanohydrins in 70-83% yields. All cyanohydrins of I form as only one of the 4 theoretically possible stereoisomers; they were all of interest as intermediates for new anaesthetic materials similar to  $\alpha$ -eucaine.

A. L. B.

Inst. Org. Chem. AS USSR

SHVETSOV, N.I.  
NAZAROV, I.N.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Report No.39: Synthetic anesthetics. Part  
4: Esters of 1,2,5-trimethyl-4-phenyl-4-piperidol with aliphatic  
acids. Synthesis of promedol and isopromedol. Zhur. ob. khim. 26  
no.10:2798-2811 O '56. (MIRA 11:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.  
Lomonosova. (Esters) (Piperidine)

NAZAROV, I.N.; SHVETSOV, N.I.

Heterocyclic compounds. Part 56: Effect of primary amines on  
propenylisopropenylketone. Zhur. ob. khim. 27 no.5:1218-1222  
My '57. (MLRA 10:8)

1. Institut organicheskoy khimii Akademii nauk SSSR.  
(Amines) (Ketone)

SHVETSOV, M. I.

E. A. Mistryukov and N. I. Shvetsov, "Application of Concepts of Conformation for Determining the Conformation of Isomeric 1, 2, 3- and 1, 2, 5-Triethyl-4-phenyl Piperidoles."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

5.3900

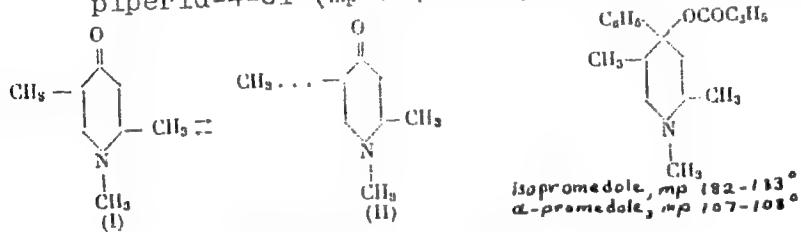
11074  
SOV/62-59-12-18/43

AUTHORS: Nazarov, I. N., Shvetsov, N. I.

TITLE: New Methods of Synthesis of Isopromedole and  
α-Promedole

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh  
nauk, 1959, Nr 12, pp 2161-2164 (USSR)

ABSTRACT: 1,2,5-Trimethylpiperid-4-one, a mixture of cis- and  
trans-isomers (I and II), was used as starting  
material for the synthesis of promedole, which, with  
phenyllithium forms mostly 1,2,5-trimethyl-4-phenyl-  
piperid-4-ol (mp 107-108°) corresponding to promedole.



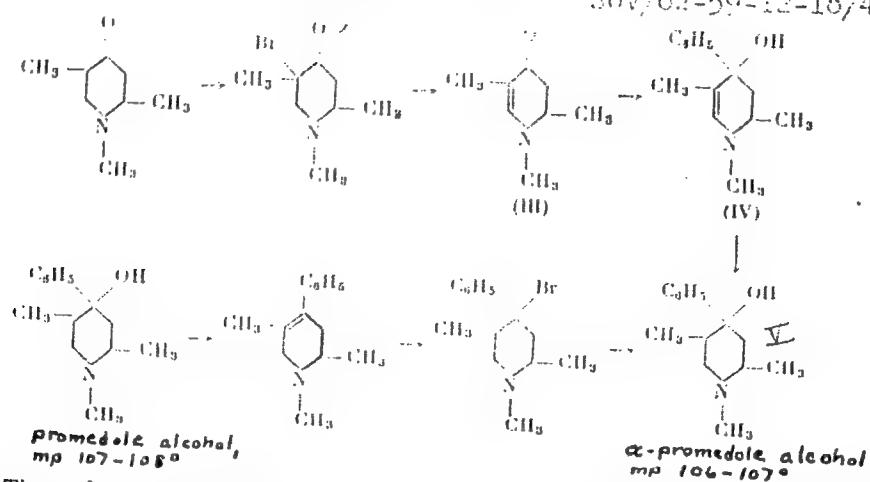
Card 1/4

New Methods of Synthesis of Isopromedole and  
α-Promedole

17974  
SOV/62-59-12-18/43

After separation of (II) (trans) the residue contains mostly the cis-isomer, which with phenyllithium and propionyl chloride forms Isopromedole, in almost 25% yield. For the synthesis of α -promedole two methods of preparation of corresponding isomer of 1,2,5-trimethyl-4-phenylpiperid-4-ol (V) were developed. The first method: (V) was obtained by catalytic hydrogenation of unsaturated alcohol (IV) in almost 30% yield. The second method is based on dehydration of alcohol (VI) followed by hydrobromination and hydrolysis.

Card 2/4

New Methods of Synthesis of Tripropenadol and  
 $\alpha$ -PromedoleTIC74  
SOV/0.1-59-12-18/43

The above synthesis made it possible to study their stereochemistry. The results will be given in a separate communication. There are 2 Soviet references.

Card 3/4

New Methods of Synthesis of Isopromedole and  
 $\alpha$ -Promedole

77074  
30V/62-59-12-18/43

ASSOCIATION: Zelinskiy Institute of Organic Chemistry, Academy  
of Sciences, USSR (Institut organicheskoy khimii  
imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: March 25, 1958

Card 4/4

5 (2,3)

AUTHORS:

Shvetsov, N. I., Kucherov, V. F.

SOV/20-126-5-29/69

TITLE:

The Stereochemistry of Heterocyclic Compounds (Stereokhimiya geterotsiklicheskikh soyedineniy). Configuration of the Geometric Isomers of 1,2,5-Trimethyl-4 Phenyl Piperidole-4 (Konfiguratsiya geometricheskikh izomerov 1,2,5-trimetil-4-fenilpiperidolov-4)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1017 - 1020 (USSR)

ABSTRACT:

1,2,5 trimethyl piperidole-4 is a mixture of cis- and trans-isomers which is obtained by the condensation of propenyl-isopropenyl-ketone with methylamine (Ref 1). Of these isomers (I) and (II) the second - the trans isomer - is the more stable. A greater amount is also produced with alkaline isomerization, and it was isolated in the individual state. This has rendered possible the synthesis of all 4 geometrical isomers, as mentioned in the sub-title (III), (IV), (V) and (VI). Their propionates showed a pain-alleviating activity of various degrees (Ref 2). Their effect exceeds that of morphine by the 2-, 8-, 4- or 4-6-fold. In order to clarify the connection between the physiological activity and the spatial structure of this class of com-

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The Stereochemistry of Heterocyclic Compounds.  
Configuration of the Geometric Isomers of 1,2,5-  
Trimethyl-4 Phenyl Piperidols-4

SOV/20-126-5-29/69

pounds the authors studied the stereochemistry of isomeric phenyl-alcohols. Thus it has become possible to prove the existence of the configuration mentioned with respect to the first group of substances (Ref 1). In the reaction of the trans-piperidole (II) with phenyl-lithium a mixture is formed (4:1) of isomeric phenyl-alcohols (III) and (IV). They can only be distinguished from each other by the configuration at C<sub>4</sub>. It was found that the isomer (IV) is more easily degraded and that it is more difficult to transform it into an ester than (III). Thus, (IV) must contain an axial hydroxyl group at C<sub>4</sub>. Investigation of the molecular model shows that the alcohol (IV) is thermodynamically more advantageous with an equatorial position of the phenyl group. As a matter of fact the alcohol (III), isomeric to same, can easily be transformed into (IV) at the reactions which proceed in C<sub>4</sub> at a Walden reversal. (Ref 1). All this is a convincing proof that the promedol alcohol (III) - with a trans-position of the methyl groups - contains a cis-

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The Stereochemistry of Heterocyclic Compounds.  
Configuration of the Geometric Isomers of 1,2,5-  
Trimethyl-4 Phenyl Piperidols-4

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-position of the phenyl group at C<sub>4</sub> and of the methyl group at C<sub>3</sub>. The  $\alpha$ -promedol alcohol is its isomer with a trans-position of these groups. Much more difficult, however, is the proof of the configuration of the isomers (V) and (VI). But in this case too a success has been achieved, and in particular in connection with the investigation of the products of the catalytical hydration of the 1,2,5 trimethyl-4-phenyl  $\Delta^5$  dehydro-piperidole-4 (VIII), obtained at an earlier stage (Ref 1). This unsaturated compound is very easily dehydrated. The proof herefore is the presence therein of an axial hydroxyl group at C<sub>4</sub>. (VIII) was oxydized to (IX). (IX) shows characteristic absorption bands corresponding to the existence of a C=O bond of the tertiary amide, and further also of the existence of a non-conjugate keto group and of an associated hydroxyl. The formation of this latter substance is only possible with the oxidation of the double bond, which is located at C<sub>5</sub> of the piperidine cycle. With the catalytical hydration of the (VIII) a mixture

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The Stereochemistry of Heterocyclic Compounds.  
Configuration of the Geometric Isomers of 1,2,5-  
Trimethyl-4 Phenyl Piperidols-4

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of isomers is produced out of which - at a ratio of about 5:1 - the isomer (IV) and the new isomer, having a melting point of 102-103°, have been isolated, the latter isomer having proved to be identical with the isopromedol alcohol (V). This further proves, that the 3rd isomer (V) has a cis-position of the methyl groups, as well as a cis-position of the phenyl group at C<sub>4</sub>, analogous to the (III), and finally a cis-position of the methyl group at C<sub>5</sub>. It follows therefrom that the 4th isomer must have the only possible configuration with a cis-position of the methyl groups and a trans-position of the phenyl-group at C<sub>4</sub>, as well as of methyl group at C<sub>5</sub>. There are 4 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskogo of the Academy of Sciences, USSR)

Card 4/5

NAZAROV, Ivan Nikolayevich [1906-1957]; TORGOW, I.V., doktor khim.nauk,  
otv.red.; ANDREYEV, V.M., kand.khim.nauk, red.; GURVICH, I.A.,  
kand.khim.nauk, red.; SHVETSOV, N.I., kand.khim.nauk, red.;  
YANOVSKAYA, L.A., kand.khim.nauk, red.; RUDENKO, V.A., red.izd-va;  
POLYAKOVA, T.V., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR,  
1961. 690 p. (MIRA 14:4)  
(Chemistry, Organic)

KUCHEROV, V.F.; SHVETSOV, N.I.

Stereochemistry of heterocyclic compounds. Report No.2: Geometrical  
isomers of 1-cyclohexyl- (and 1-phenyl)-2,5-dimethyl-4-phenyl-4-  
piperidinols. Izv. AN SSSR. Otd. khim. nauk no.2:287-291 F '61  
(MIRA 14:2)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Piperidinol)

MISTYUKOV, E.A.; SHVETSOV, N.I.

Synthesis of four geometrical isomers of 1,2,3-trimethyl-4-phenyl-4-piperidinol. Izv. AN SSSR. Otd. khim. nauk no.2:292-294 F '61.

(MIRA 14:2)

1. Institut organicheskoy khimii im.N:D.Zelinskogo AN SSSR.  
(Piperidinol)

SHVETSOV, N.I.; UNKOVSKIY, B.V.; MOKHIR, I.A.; KUCHEROV, V.F.

Stereochemistry of heterocyclic compounds. Report No.5: Possible configuration of 1, 2, 5-trimethyl-4-ethynyl-4-piperidinol stereoisomers and their transformation products. Izv.AN SSSR.Otd.khim.nauk no.5: 843-849 My '61. (MIRA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Piperidinol)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesis of polyphosphonitriles. Zhur.neorg.khim.  
8 no.2:534 F '63. (MIRA 16:5)

1. Fiziko-<sup>khimicheskiy</sup> institut imeni L.Ya.Karpova.  
(Phosphonitrile chloride)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesizing polyphosphonitriles. Zhur. neorg. khim. 8 no.8:1831-1838 Ag '63. (MIRA 16:8)

(Phosphonitrile chloride)

SHVETSOV, N.I.; NURIDZHANYAN, K.A.; YAKUBOVICH, A.Ya.; SUKHOV, F.F.

Chemistry of phosphazenes. Derivatives of 2,4,6-tetra-N-di-methylaminocyclotriphosphonitrile. Zhur.ob.khim. 33 no.12:3936-3941 D '63. (MIRA 17:3)

1. Fiziko-khimicheskiy institut imeni Karpova.

SHVETSOV, B.I.; LEBEDEVA, I.V.; FILATOVA, T.N.

Synthesis of some RO derivatives of phosphagenephosphoxide.  
Zhur.neorg.khim. 10 no.4:993-994 Ap '65. (MIRA 18:6)

L 13622-66 EWT(m)/EWP(j)/T RPL WW/RM

ACC NR: AP6000987

(A)

SOURCE CODE: UR/0286/65/000/022/0060/0060

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I.

ORG: none

TITLE: A method for obtaining polyphosphonitryl chlorides. Class 39, No. 176412  
Announced by Scientific Research Physicochemical Institute im. L. Ya. Karpov  
(Nauchno-issledovatel'skiy fiziko-khimicheskiy institut) <sup>1445</sup> 40 <sup>15</sup>

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 60

TOPIC TAGS: phosphorus compound, polymer, polycondensation

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitryl chlorides based on phosphonitryl chlorides. To produce a thermally stable and uniform polymer of a high molecular weight, monohydroxy derivatives of polychlorophosphazine-phosphohydroxy dichlorides or their derivatives, such as alkoxy derivatives, are used as phosphonitryl chlorides. These substances are subjected to polycondensation.

SUB CODE: 07/

SUBM DATE: 25Feb63

UDO: 678.745.3'73

Cord 1/1 Hw

L 15326-66 EWT(m)/EWP(j)/T/ETC(m)-6 WI/RM

ACC NR: AP6000990

(A)

SOURCE CODE: UR/0286/65/000/022/0061/0061

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I.

53

ORG: none

B

TITLE: A method for obtaining polyphosphonitrile chlorides. Class 39, No. 176416  
announced by Scientific Research Physico-Chemical Institute im. L. Ya. Karpov  
(Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)

SOURCE: Byulleten' izobretений и товарных знаков, no. 22, 1965, 61

TOPIC TAGS: polymer, polycondensation, organic phosphorus compound, phosphonitrile, monomer

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitrile chlorides by polycondensation of phosphonitrile chloride monomers. To increase the variety of thermostable polymer, the monomers used are: chloromono- or poly(dichlorophosphasen)-phosphoxide dichlorides or alkoxy derivatives of the latter.

SUB CODE: 11/ SUBM DATE: 25Feb63  
07/

TS  
Card T71

UDC: 678.745.3173

PIROTSKIY, P.P.; SHVETSOV, N.N.

Current leakage in electrolytic cells for the electrolysis of zinc  
and ways to reduce it. TSvet. met. 33 no.8:35-39 Ag '60.  
(MIRA 13:8)

1. Dnepropetrovskiy khimiko-tehnologicheskiy institut.  
(Electric currents, Leakage)  
(Zinc--Electrometallurgy)

PIROTSKIY, I.P.; SHVETS', V.S.

Device for measuring direct current in electrolytic streams. Izm.tekh.  
no.1243-61 (MIR. 15:1)  
(electric meters)

PIROTSKIY, P.P.; SHVETSOV, N.N.

Modeling current leakages in electrolytic cell systems. TSvet.  
met. 34 no. 4:29-34 Ap '61. (MIRA 14:4)  
(Electric currents, Leakage—Electromechanical analogies)  
(Electrometallurgy)

SHVETSOV, N.N.

Electric current losses in electrolytic copper refining and  
methods to calculate them. TSvet.met. 35 no.8:36-44 Ag '62.  
(MIRA 15:8)  
(Copper--Electrometallurgy) (Electric currents, Leakage)

SHVETSOV, N.N.; STENDER, V.V.

Current leakage in the industrial electrolysis of aqueous solutions.  
Zhur. prikl. khim. 36 no.8:1756-1763 Ag '63. (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tehnologicheskiy institut.

(11) 1. 13)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410014-0"

PIROTSKIY, Petr Petrovich, doktor tekhn.nauk, prof.; SHVETSOV, Nikolay Nikolayevich, kand.tekhn.nauk, dotsent

"Electrical engineering and electrical equipment" by N.I.Amatuni and others. Reviewed by P.P.Pirotskii and N.N.Shvetsov. Izv.vys. ucheb.zav.; elektromekhanika 8 no.6:721-722 '65.

(MIRA 18:8)

1. Zaveduyushchiy kafedroy elektrotehniki Dnepropetrovskogo khimiko-tehnologicheskogo instituta (for Pirotskiy).
2. Dnepropetrovskiy khimiko-tehnologicheskiy institut (for Shvetsov).

FEODOROV, A. F., BUDNOV, M. N., LIVETIN, V. K., MOLAVTSEMOV, B. F.

Liquid-vapor equilibrium in the system methyl alcohol-methyl methacrylate. Zhurn. fiz. khim. 38 no. 5:1303-1304  
(MIRA 18:12)  
My '64.

1. Vareslavskiy tekhnologicheskiy institut. Submitted  
June 7, 1963.

SHVETSCOV, P. D.

Remont, reviziia i eksploatatsiia parovykh dvigatelei. Kiev, Mashgiz, 1950.  
199 p. illus.

Bibliography: p. 181.

Repair, inspection and utilization of steam engines.

DLC: TJ471.S5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

SHVETS, I.T., deystvitel'nyy chlen; SHVETSOV, P.D., professor [editors].

[Thermodynamic installations of small and medium capacity; a reference book. Teploenergeticheskie ustanovki maloi i srednei moshchnosti; spravochnoe rukovodstvo. Pod red. I.T. Shvetsa i P.D. Shvetsova. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry [Ukr. otd-nie] 1952. 514 p. (MLRA 6:7)

1. Akademiya nauk Ukrainskoy SSR (for Shvets).

(Thermodynamics)

SHVETSOV, P.D., prof.; YEREMENKO, A.S., kand.tekhn.nauk; KUTSIN, E.A.,  
kand.tekhn.nauk

Problem of raising the resistance of turbine blades to erosion  
blades. Trudy Inst.tepl.AN URSR no.7:21-25 '52. (MIRA 13:5)  
(Cavitation) (Turbines--Blades)

SHVETSOV, P.D., prof.

Limits of the raising of the power of engines. Trudy Inst.  
tepl. AN URSR no.7:26-34 '52. (MIRA 13:5)  
(Steam engines)

SHVETSOV, P.D., professor

Simplified calculation of vibration in steam turbine blades. Trudy Inst.  
tepl. AN URSR no.8:55-67 '52. (MLRA 8:7)  
(Steam turbines--Blades--Vibration)

SHVETSOV, P.D., professor

Improving the thermodynamic efficiency of marine steam engines. Trudy  
Inst. tepl. AN URSR no.8:68-77 '52. (MLRA 8:7)  
(Marine engines)

SHVETSOV, P.D., professor; BARANOVSKIY, M.A., kandidat tekhnicheskikh nauk,  
dotsent, retsentent, redaktor; RUDENSKIY, Ya., tekhnicheskiy redaktor.

[Prevention of breakdowns in steam turbines] Preduprezhdenie avarii  
parovykh turbin. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,  
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(Steam turbines)

Справочник / 1:  
KULIKOVSKIY, Pavel Pavlovich, kand.tekhn.nauk; SHVETSOV, Petr Dmitriyevich,  
prof.; SEMENOV, Aleksandr Sergeyevich, dots.; MOZER, V.F., prof..  
retsenszent; SAYKOVSKIY, M.I., kand.tekhn.nauk, retsenszent;  
KIRAKOVSKIY, N.F., dots., red.; TSITKIN, S.I., kand.tekhn.nauk,  
red.; ROMANOVSKIY, I.A., inzh., red.; SERDYUK, V.K., inzh., red.  
izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Steam engines; control, adjustment, and testing; a manual] Parovye  
dvigateli; kontrol', naledka, isputanie. Spravochnoe rukovodstvo.  
Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 377 p.  
(MIRA 11:6)

(Steam engines--Handbooks, manuals, etc)

SHVETS, I.T.; SHVETSOV, P.D., professor; DYBAN, Ye.P., mladshiy nauchnyy setrudy-  
nik.

Study of heat transfer around the base of moving blades in turbines.  
Trudy Inst.tepl.URSSR no.12:13-20 '55. (MIRA 9:7)

1.Deystvitel'nyy chlen AN USSR (for Shvets)  
(Heat--Transmission) (Blades)

SHVETSOV, P.D.

FEDOROV, P.D.; STABNIKOV, V.N.; GLYBIN, I.P.; BILYAVSKIY, V.V.; BOYCHENKO, N.G.; BUZYKIN, N.A.; GOLOVIN, P.V.; DEMCHUK, A.P.; ZHURA, K.D.; KORCHINSKIY, A.I.; KURILENKO, O.D.; KLIMKO, N.G.; LITVAK, I.M.; MAL'TSEV, P.M.; NIKOLAYCHUK, I.M.; NAUMOV, A.L.; POPOV, V.D.; RUD'KO, F.A.; SKOBLO, D.I.; KHRISTENKO, M.M.; TSYGANOV, P.S.; SHLIPCHENKO, Z.S.; SHVETSOV, P.D.

Gleb Mikhailovich Znamenskii; obituary. Sakh. prom. 31 no.12:68  
(MIRA 11:1)  
D '57. (Znamenskii, Gleb Mikhailovich, 1901-1957)

PHASE I BOOK EXPLOITATION STUDY 1993-1994

## PHASE I FOUNDATION

PHASE I BOOK EXPLOITATION STUDY 1998-1999

Avantazhaya nauk UkrSSR. Institut teplotemernosti i  
teplofiziki. 1. Elektronnika (Heat transfer and by temperature).  
1952. 150 p. (Series: Itz: Stroim. trudy, no. 14) Z, N  
copies printed.

Environ Biol Fish (2009) 86:1–10  
DOI 10.1007/s10641-008-9420-2

**COFFEEBEK:** This collection of 18 articles deals primarily with numerical and theoretical studies of the effect steam and gas turbines have on the dynamics as they affect steam and gas turbines and their components. The results of theoretical studies are presented in the first 10 articles. The results of experimental studies are presented in the remaining 8 articles. The first article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The second article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The third article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The fourth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The fifth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The sixth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The seventh article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The eighth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The ninth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The tenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The eleventh article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The twelfth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The thirteenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The fourteenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The fifteenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The sixteenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The seventeenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines. The eighteenth article describes the methods used to calculate the dynamics of the components of the steam and gas turbines.

Under Vacuum

The paper deals with a study of the hydrolytic and oxidative reactions for aqueous solutions of LLE and LCH under conditions of boiling under vacuum. The effects of the parameters of the solutions, the ambient pressure, and other parameters are determined.

FIGURE 1. Approximate Method of Calculating Velocity and Acceleration.

117

lectures Fields for the Case of Lanthan-  
With Heat-Transfer Around an Object

118

Polyakov, N.I. On the Possibility of Reducing the Differential-  
Equations of a Lanthan-  
Boundary Layer to Ordinary Differential-  
Equations

160 *Journal of Health Politics, Policy and Law* / March 2005

Two Spates of Intervening-Periodic Erosion of Stream in Principal Stein 122

THERAPEUTIC USES OF INTERNAL DEFLATION

—Ghosh, L.L. Effect of Manufacturing Defects on End Losses in the Guide Stands of Welded Turbine Disk Blisks. *Trans. of Gortacay, Yu.P., A.S. Dostrov, and V.I. Sivchenko. Effect of*

Sayavkivt, M.I., and A.S. Dorman. Criteria for Estimating the Efficiency of Intake Nozzles. *Losses in Turbine Blad* 167.

Yeremienko, A.S. and A.P. Fedorov. *Investigation of the living years of the larvae of* *Plutella xylosteana* *in* *Castanea sativa* *and* *Prunus dulcis*. 17

The above two papers deal with an investigation of the variation of the turbine fluidic values of the cascade tip. The efficiency of the cascade is determined as a function of the incidence angle, blade incidence angle, blade pitch, and other parameters.

MAY 1966

AVAILABILITY

AC/PC/7

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001550410014-0"

SHVETSOV, P.D.; PECHUK, V.I.

Aerodynamic investigation of auxiliary details of the blading  
section of high capacity steam turbines. Trudy ETIPP no.19:39-50  
'58. (MIRA 12:12)

(Steam turbines)

KAMENETSKIY, Aleksey Vasil'yevich; SHVETSOV, P.D., prof., retsenszent;  
SERDYUK, V.K., inzh., red.

[Operation and repair of reciprocating valve steam engines]  
Mekhanicheskaya i remont klapannyykh parovykh mashin, rabe-  
taiushchikh na protivodavlenie. Kiev, Gos.nauchno-tekhn.izd-vo  
mashinostroit.lit-ry, 1959. 108 p. (MIRA 12:7)  
(Steam engines--Maintenance and repair)

MOROZOV, Sergey Georgiyevich; SHVETSOV, P.D., prof., retsenzont;  
SOROKA, M.S., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Heat calculations of a steam turbine with variable operating  
conditions] Teplovye raschety parovoи turbiny pri peremennykh  
rezhimakh. Moskva, Mashgiz, 1962. 297 p. (MIRA 15:9)  
(Steam turbines)

SHVETSOV, P. F.

Permafrost and engineering-geological conditions of the Anadyr. region. Izd.  
gorno-geol. upr. 1938

So: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of  
Ministers, Vol. 201, 1948

SHVETSOV, P. F. AND SEDOV, V. V.

Gigantic iceing and subterranean waters of the Tas-Khayakhtakh range. Izd.  
Sov. Poizuch. Proizvod. Sil, Iust Merzldoved. 1941

So: Trudy Arkhicheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of  
Ministers, Vol. 201, 1948

CHURCHILL, R. . .

"Sedimentation and Glaciation of the Mackenzie River Delta, N.W.T., Canada," - Dissertation  
Defended on 13 Feb 1964 at the Moscow Geological Prospecting Inst.

Acc. #64 AS USSR 1/9, 1964

USSR/Permafrost  
Hydrology

Jul/Aug 1947

"The Verkhoyansk-Kolymsk Mountainous Region as the  
Typical Permafrost Hydrological Province," P. F.  
Shvetsov, 12 pp

"Iz Vsesoyuz Geog Obrashchestva" Vol LXXX, No 4

This is one of the regions, where traces of huge  
glaciers still remain. The author discusses the make-  
up and location of the more important ice fields and  
glaciers of the Verkhoyansk, Taz-Khayatakh, Cherek,  
Taykystabyt, Mysk, and Kolymsk Mountain Ranges. This  
work was submitted at the Institute of Permafrost  
imenui V. A. Obrucheva, Academy of Sciences of the  
USSR.

LC

2070

SHVETSOV, P.F.; MEYSTER, L.A., otv.red.; KOTLYAREVSKAYA, P.S., red.izd-va;  
ALEKSEYeva, T.V., tekhn.red.

[Introductory chapters to the fundamentals of cryopedology] Vvodnye  
glavy k osnovam geokriologii. Moskva, Izd-vo Akad.nauk SSSR, 1955.  
110 p. (Materialy k osnovam ucheniya o merzlykh zonakh zemnoi kory,  
no.1).  
(Frozen ground)

SHVETSOV, P.F.

USSR/ Geology - Terminology

Card 1/1 Pub. 45 - 8/18

Authors : Meyster, L. A., and Shvetsov, P. F.

Title : About some terms in the study of the zones of solidified soils and rocks and its place among other sciences

Periodical : Izv. AN SSSR. Ser. geog. 1, 69 - 73, Jan-Feb 1955

Abstract : Various geological terms are discussed as to derivation and present usage. Diagram.

Institution : Acad. of Sc., USSR, Institute of the Science of Soil Solidification

Submitted : .....

SHVETSOV, P.F.

Principles governing the division of the permafrost zone into  
regions. Mat.k osn.uch.o merz.zon.zem.kory no.3:19-39 '56.  
(MIRA 13:9)

(Frozen ground)

TOLSTOV, A.N.; SHVETSOV, P.F.

Data on the geological and geomorphological examination of the discovery site of the neolithic man in the Kolyma channel of the Indigirka River. Izv.AN SSSR.Ser.geog. no.3:85-89 My-Je '56.  
(MLRA 9:11)

1. Institut merzlotovedeniya AN SSSR imeni V.A. Obrucheva.  
(Indigirka Valley--Physical geography)  
(Stone age)

SHVETSOV, P.F.; MEYSTER, L.A.

Water infiltration for thawing alluvial deposits as one of the  
methods used in hydrothermal improvement of frozen ground. Izv.  
AN SSSR. Ser. geog. no. 6:79-84 N-D '56. (MLRA 10:1)

1. Institut merzlotovedeniya imeni V.A. Obrucheva.  
(Frozen ground)

SHVETSOV, P.F.

Origin and regularities of fossil ice occurrence. Vest. AN SSSR  
26 no. 3:66-69 Mr '56. (MIRA 9:6)

1. Chlen-korrespondent AN SSSR.  
(Ice) (Frozen ground)

SHVETSOV, P.F.

Popov, I.V

5(4,5)

PHASE I BOOK EXPLOITATION

NOV/1955

Akademika nomy 8858. Komitet po geodesii i geofizike.

Tesley dokladov na XI General'noy assamblee Mezhdunarodnogo geodesicheskogo i geofizicheskogo soyuzov. Mezhdunarodnyy assotiativnyy zhurnal glaciologii (Abstracts of Reports Submitted to the 11th General Assembly of the International Union of Geodesy and Geophysics. The International Association of Scientific Hydrology) Moscow, 1957. 101 p. /Parallel texts in Russian and English or French/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for hydrologists and civil engineers.

COVERAGE: This collection of abstracts covers reports presented at the 11th General Assembly of the International Union of Geodesy and Geophysics on hydrological, erosional, and glaciological processes. Studies related to problems of underground waters, snow, and rivers are also discussed. The abstracts are in Russian, with English or French translations. Those appearing in English are designated by a single asterisk; those in French by two. There are no references given.

Card 1/8

Shilin-Bekkerin, A.I. Types of Hydrochemical Maps in Hydrogeology*	50
Chernikov, N.V. Hydrological Maps and Their Importance in Evaluating the Water-Bearing Capacity and Reserves of Underground Water *	51
Averuk, G.A. Glaciological Studies in the USSR *	52
Selikhvalidze, G.E. Physical Properties of a Snow Cover *	53
Shvetsov, P.F. Subject and Basic Problems in Geoglaciology in the USSR *	54
Shmelev, P.A. Basic Problems in Modern Glaciology in the Light of Present-day Studies by Soviet Scientists *	55
Armand, D.L. Problems in the Study of Erosion Processes on the Territory of the USSR *	56
AVAILABLE: Library of Congress (00653-437)	

Card 4/8

NS/000  
5-22-79

SHVETSOV, P. F.

Results of research on soil improvement through the heating of  
frozen rocks and cold soils and further research tasks. Izv. AN  
SSSR. Ser. geog. no.5:87-90 S-0 '57. (MIRA 11:2)  
(Frozen ground) (Soil heating)

SHVETSOV, P.F.

Scope and tasks of Soviet geocryology. Sov.geol. 1 no.12:36-42  
(MIRA 12:4)  
D '58.

1. Institut merzlotovedeniya imeni V.A. Obrucheva AN SSSR.  
(Frozen ground)

SHVETSOV, P. F.

AUTHOR: *P. F.* None Given

30-58-5-13/36

TITLE: In the Department of Geological-Geographical Sciences  
(V otdelenii geologo-geograficheskikh nauk)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 5,  
pp. 56-59 (USSR)

ABSTRACT: The report of activity was made by D. I. Shcherbakov,  
Secretary of the Department and Member, Academy of  
Sciences, USSR. He mentioned that in the plan of the past  
year the sections devoted to the treatment of scientific  
problems were increased. In the report the ways of a  
further improvement of activity of the scientific  
institutions of the department were shown. Above all  
the participation of the institutes in the concrete  
treatment of individual questions of leading problems  
must be intensified. The works of the introduction of  
the scientific research of marked atoms into practice  
as well as of the distribution of different radioactive  
elements and their isotopes in nature must be intensified.  
In the field of experimental researches the highest

Card #4  
1/2

In the Department of Geological-Geographical Sciences 30-58-5-13/36

attention must be devoted to problems of modelling natural processes. The thematic and the regional scientific prognoses play an especially important part. Their part in the development of the mineral raw material basis constantly increases. At present it is an indispensable means of the national economy plan. Then he reported in detail on the establishment of the Siberian Branch AS USSR and emphasized the necessity of aid on the part of the department. At the end he mentioned the connections of the department institutions to the councils of national economy for which an expeditionary activity of the department institutions shall be beneficial. The following persons participated in the discussion of the report:

- 1) P. F. Shvetsov, Corresponding member, Academy of Sciences, USSR reported on the work of the Institute for Frost Science and regretted the little interest on the part of the department office for this activity.
- 2) A. V. Sidorenko, President of the presidium of the Kola Branch imeni S. M. Kirov, Corresponding member, Academy of Sciences, USSR reported on the cooperation

Card ~~27~~

1/2

SOILS, I.Y.

Significance of the composition, structure, permeability to water,  
and moisture of soils and rocks in the formation of the mean annual  
temperature of the earth's crust. Trudy 1907 no.1:34-38  
(Trudy 34:11)

U.S.

(Earth temperature)

RUSANOV, Boris Sergeyevich, kand. geologo-miner. nauk, laureat  
Stalinskoy premii; SHVETSOV, P.F., nauchnyy red.; KELL', N.G.,  
nauchnyy red.; VIL'SHANSKIY, A.L., red.; POLYAKOV, M.G.,  
tekhn. red.

[Hydrothermal movements of the earth's surface] Gidrotermi-  
cheskie dvizheniya zemnoi poverkhnosti. Moskva, Akad. nauk  
SSSR Iakutskii filial Sibirskogo otd-niia, 1961. 225 p.  
(MIRA 15:3)

1. Chleny-korrespondenty Akademii nauk SSSR (for Shvetsov, Kell').  
(Earth movements) (Frozen ground)

SHVETSOV, P.F.

Glaciological problems in oil prospecting in subarctic lowlands.  
(MIRA 14:9)  
Geol.i geofiz. no.8:36-39 '61.

1. Severnoye otdeleniye Instituta merzlotovedeniya :meni  
V.A. Obrucheva, Vorkuta.  
(Arctic regions--Petroleum geology)  
(Frozen ground)

SHVETSOV, P.F.

Cryogenic geochemical fields in the perennial cryolite zone.  
Izv.AN SSSR. Ser.geol. 26 no.1:46-51 Ja '61. (MIRA 15:5)

1. Severnoye otdeleniye Instituta merzlotovedeniya AN SSSR, g. Vorkuta.  
(Cryolite) (Geochemical prospecting)

SHVETSOV, P.F.

Peculiarity of the conditions of coal accumulation on territory with frozen subsoil. Izv. AN SSSR, Ser. geog. no. 3:90-95 My-Je '62.  
(MIRA 15:5)

1. Severnoye otdeleliye Instituta merzlotovedeniya AN SSSR.  
(Vilyuy Lowland—Frozen ground) (Vilyuy Lowland—Coal geology)

ANTIPIN, V.I.; BUDANOV, N.D.; KOTLUKOV, V.A.; LEYBOSHITS, A.M.;  
PROKHOROV, S.P., kand.geol.-miner.nauk; SIRMAN, A.P.;  
FALOVSKIY, A.A.; SHTEYN, M.A.; BASKOV, Ye.A.; BOGATKOV,  
Ye.A.; GANEYeva, M.M.; ZARUBINSKIY, Ya.I.; IL'INA, Ye.V.;  
KATSIYAYEV, S.K.; KOMPANIYETS, N.G.; NELYUBOV, L.P.;  
PONOMAREV, A.I.; REZNICHENKO, V.T.; SULEV, N.A.; TSELIGOROVA,  
A.I.; ALSTER, R.K.; SHVETSOV, P.F.; VYKHODTSEV, A.P.; KOTCVA,  
A.I.; KASHKOVSKIY, G.N.; LOSEV, F.I.; ROMANOVSKAYA, L.I.;  
PROKHOROV, S.P.; MATVEYEV, A.K., dots., retsenzent; CHEL'TSOV,  
M.I., inzh., retsenzent; KUDASHOV, A.I., otv. red.; PETRYAKOVA,  
Ye.P., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[State of flooding and conditions for the exploitation of coal-bearing areas in the U.S.S.R.] Obvodnennost' i usloviia ekspluatacii mestorozhdenii ugod'nykh raionov. Pod nauchn. red.  
S.P. Prokhorova. Moskva, Gosgortekhizdat, 1962. 243 p.

(MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii. 2. Kafedra geologii i geo-khimii goryuchikh iskopayemykh Moskovskogo Gosudarstvennogo universiteta (for Matveyev).

(Coal geology) (Mine water)

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A.L., red. izd-va; RYLINA, Yu.V., tekhn. red.

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Zhestkova, T.N.; Feil'iman, G.M.; Dukhin, I.Ye.; Shvetsov, P.F.

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6.4800

6.4310

6.9416

6.4311

20527

S/115/61/000/001/005/007  
B128/B201

AUTHORS: Birger, L. A., Shvetsov, P. N., Sokov, I. A.

TITLE: Standard devices for the calibration of noise generators in the super-high frequency range

PERIODICAL: Izmeritel'naya tekhnika, no. 1, 1961, 37-40

TEXT: The authors describe a device for testing noise generators in the frequency range of from 1000-10,000 megacycles. A modulation method is employed for amplifying the weak signal. The block diagram of the device is shown in Fig. 1: 1) is the noise generator to be tested; 2) matching transformer; 3) standard noise generator; 4) device for keeping the temperatures constant; 5) tuned load (to room temperature); 7), 8), 9) waveguide connecting links; 10) signal generator; 11) waveguide branching; 12) matching transformer; 13) tuned load; 14) high-frequency modulator; 15) ferrite rectifier for eliminating parasitic noise; 16) high-frequency amplifier; 17) waveguide connecting link; 18) image frequency filter; 19) mixer; 20) heterodyne; 21) i.f. amplifier; 22) amplitude modulator; 23) amplifier for frequency-modulated signal; 24) phase modulator; 25) indicating instrument; 26) video

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Standard devices for ...

amplifier; 27) cathode-ray oscilloscope; 28) calibration line; 29) i.f. noise source (for compensating the i.f. noise); 30) electron modulator; 31) temperature pick-up for keeping the temperature of the standard generator constant; 32) stabilized (400 cycles) power supply unit. The noise source was tested by a comparison of the radiation temperature of the source with that of the standard generator. The measurements were made as follows: 1) tuning of the parts mentioned in 1, 2, and 5 according to amplitude and phase by means of matching transformers; 2) determination of the room temperature ( $T_z$ ) by means of load (5); the room temperature usually differs from the normal temperature ( $T_o = 293^{\circ}\text{K}$ ); 3) the standard noise generator with an effective radiation temperature is connected to the input; 4) compensation of i.f. noise by means of i.f. noise generator and connected calibration line; 5) determination of the attenuation factor

$$A = 10 \lg \frac{T_{RG} - T_z}{T_o - T_z} \quad [\text{db}] \quad \text{, where } T_{RG} \text{ is the effective radiation temperature}$$

of the noise source to be tested. The final evaluation of the noise generator is made on the basis of equation

$$A_{RG} = A + A_e + 4.34 \cdot \frac{\left( \frac{T_z - T_o}{T_{RG} - T_o} \right)}{1} \quad [\text{db}]$$

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...andard devices for ...

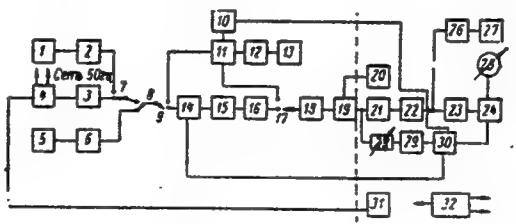
S/115/61/CCC/001/005/007  
3126/3201

In this equation, the last summand which is to be multiplied by the temperature-dependent parameter  $k$ , is to be neglected unless the noise source to be tested is a radiator with very low temperatures. Expression  $A_e$  is obtained from

$$A_e = 10 \lg \frac{T_e - T_z}{T_0} . \text{ The error in measurement caused by the}$$

standard noise generator ( $\pm 0.08$  db) and the measuring method ( $\pm 0.14$  db) can be reduced by repeated measurements. After the fifth measurement, it is smaller than  $\pm 0.2$  db. The authors also describe the design of the standard generator in waveguide (2600-10,000 megacycles) or coaxial construction (1000-2600 megacycles).

Fig. 1



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L 29931-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(l)/EWP(v)/EWP(t)/ETI JD/HM  
ACC NR: AP6018011 (A) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTOR: Voronin, G. I.; Slotin, V. I.; Zaretskiy, B. S.; Krylov, A. I.; 40  
Shvetsov, P. N.; Barannikov, G. I.; Eskin, G. I. B

ORG: none

TITLE: Ultrasonic unit for fluxless brazing of metals. Class 49, No. 181967

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

TOPIC TAGS: brazing, metal brazing, ultrasonic brazing, brazing unit

ABSTRACT: This Author Certificate introduces a unit for fluxless brazing of metals equipped with a heater and ultrasonic emitter. To increase efficiency, the ultrasonic

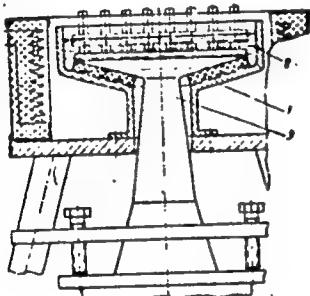


Fig. 1. Fluxless brazing unit

1 - Crucible; 2 - brazing alloy;  
3 - ultrasonic emitter.

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UDC: 621.791.351.6.03

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ACC NR: AP6018011

emitter is located inside the crucible containing molten brazing alloy, forming  
the bottom of the latter (see Fig. 1.). Orig. art. has: 1, figure. [AZ] 0

SUB CODE: 11,13/SUBM DATE: 29Jan65/ ATD PRESS: 5011

Card 2/2 CC

SOBOLEVA, Z.V.; SHVETSOVA, M.A.; SHVETSOV, P.V.

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(NARVA RESERVOIR--WATER--POLLUTION)

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1. Author: Shvetsov, R.N. Aspirant METINOV,  
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